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Tyaminer -	U.S. P	PATENT DOCUM	1ENTS					
2,000,000	Document					Sub		
Initial	Number	Date	Na		Class	Class	Filin	g Date
JG	4,562,333	Dec. 31, 1985	TAUB			<u> </u>		
JG	5,254,833	Oct. 19, 1993	OKIY	AMA				
JG	5,543,365	Aug. 6, 1996	WILLS	S et al.			<u> </u>	
JG	5,622,540	Apr. 22, 1997	STEV	ENS				
JG	5,637,244	Jun. 10, 1997	EROK			<del>                                     </del>		
JG	5,776,220	Jul. 7, 1998	ALLAIF			<del> </del>		
JG	5,826,772	Oct. 27, 1998	ARIGLI					
JG	6,055,829	May 2, 2000	WITZMA	NN et al.		<del> </del>	<del>                                     </del>	
JG	6,211,488 B1	Apr. 3, 2001	HOEKST			<del>                                     </del>	<del>                                     </del>	
JG	6,252,197 B1	Jun. 26, 2001	HOEKST					
JG	6,257,224 B1	Jul. 10, 2001	YOSHIN				<del> </del>	
JG	6,259,058 B1	Jul. 10, 2001	HOEK				·	
JG	6,322,958 B1	Nov. 27, 2001	HAYA		•	-		
JG	6,420,678 B1	Jul. 16, 2002	HOEK					
JG	6,489,588	Dec. 3, 2002	HOEKST					
JG	2002/0006765 A1	Jan. 17, 2002	MICHE					<del></del>
JG	2003/0024909 A1	Feb. 6, 2003	HOEKST	RA et al.				
JG	5,211,805	May 18, 1993	SRINIV	ASAN				
	FOREIG	N PATENT DOC	UMENTS					
	Document		<u> </u>	T	Sub	Tra	nslatio	<u></u>
	Number	Date	Country	Class	Class	YE	S	NO
JG	2002-192370 A	Jul. 10, 2002	JP			Abstra		
JG	2002-226796 A	Aug. 14, 2002	JP	<u> </u>		Abstra		
JG	7-037840 A	Feb. 7, 1995	JP	ļ		Abstra		
JG	60-055640 A	Mar. 30, 1985	JP			Abstra		
JG TC	11-221684 A 2002-158276 A	Aug. 17, 1999	JP TP			Abstra		
JG JG	2002-138276 A 2000-104040 A	May 31, 2002 Apr. 11, 2000	JP JP	ļ		Abstra Abstra		
JG	07-40336 A	Feb. 10, 1995	JP	<del>                                     </del>	,	Abstra		
JG	10-163780 A	Jun. 19, 1998	JP			Abstra		
JG	11-138896 A	May 25, 1999	JР			Abstra		
JG	11-221684 A	Aug. 17, 1999	JР			Abstra		
JG	11-267861 A	Oct. 5, 1999	JP			Abstra		
	OTHER DOCUMENTS (Incl	luding Author, Tit	le, Date, Per	tinent Pag	es, Etc.)	-		
`. Miyazaki, "Lase	er Beam Machining Technology," Pub					t Edition. p	p. 9-10	<del></del>
		•						
Examiner	/Jairus Greene/	,		Date Con	sidered	05/18/	2007	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

À	DEC 0 8 2005	. W								
	1	ON DISCLOSURE CITATION		rney I 24-53	Docket No.			ıl No.: 37,509		
		several sheets if necessary)	Appl	licant		et al.		2 of 2		
		PTO Form 1449		g Dat 3, 20			Conf 4531	irmation I	Vo.:	
		U.S. PA	ATENT DOC	CUM	ENTS					
	*Examiner	Document						Sub		
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	·	FOREIGN	N PATENT D	oct	<b>JMENTS</b>					
		Document					Sub		nslatio	
		Number	Date		Country	Class	Class	YE		NO
	JG	2000-015467 A	Jan. 18, 20		JP			Abstra		
	JG	2000-219528 A	Aug. 8, 20		JР		ļ	Abstr	act	
	JG	11-163403 A	Jun. 18, 19		JР		ļ	X		<u> </u>
	JG	11-177137 A	Jul. 2, 199		<u>ЈР</u>		ļ	X		
	JG	04-111800 A · ~	Apr. 13, 19		JР		ļ	X		
	JG	. 10-305420 A.	Nov. 17, 19		JР		ļ	Abstra		
	JG	02/22301 A ·	Mar. 21, 20		WO		<del></del>	Abstr		
	JG 	01/90709 A	Nov. 29, 20	~	JP			Abstra		ļ
	JG	61-112345 A 2003-001458 A	May 30, 19		JР		- <del> </del>	Abstr		<del> </del>
	JG JG	2003-001438 A 2001-250798 A	Jan. 8, 200		JP		- <del> </del>	Abstra Abstra		
		04-356942 A	Sept. 14, 20 Dec. 10, 19		JP	-	-	<del></del>		
	JG TG	2000-195828 A	Jul. 14, 20		JP		ļ	Abstra Abstra		<del></del>
	JG JG	03-234043 A	Oct. 18, 19		. JP					<del></del>
	JG		Feb. 15, 20		. JP			Abstra		<b></b>
	UG	2002-050589 A	reb. 13, 20	02	JP		J	Abstr	act	Ĺ
		OTHER DOCUMENTS (Incl.					•			
JĢ	F. Fukuyo et al., "Stea Electronics Packaging	alth Dicing Technology for Ultra Th g), April 16-18, 2003, Tokyo, Japan	hin Wafer", p 1.	resen	ted at 2003	ICEP (I	nternational	l Conferen	ice on	
JG	Katsumi MIDORIKA	WA. "Recent Progress of Femtosec	cond Lasers a	nd Th	neir Applica	tions to	Material Pr	ocessing"	, Dai 4	5 Kai
υď	Laser Netsukako Ken	kyukai Ronbunshu, December 1998	8, pp. 29-38.							
JG	T. Sano et al., "Ultras 2000, pp. 72-73.	hort Pulse Laser Microprocessing o	of Silicon", Ja	pan V	Velding So	ciety Zen	koku Taika	ai Koen G	aiyo, M	1arch
JG	K. Miura et al., "Form	nation of Photo-induced Structures in			mtosecond	Laser," I	Dai 42 Kai	Laser Nets	ukako	
JG	K. Hayashi, "Inner Gl	u, November 1997, pp. 107, line 4 t ass Marking by Harmonics of Solid			45 Kai Las	er Netsu	kako Kenk	yukai Ron	bunshu	1,
- •	December 1998, pp. 2			000						
JG	_	3rd Laser Materials Processing Conf				23.				
JG		Symposium on Laser Precision Micro								
JG	"Journal of Japan Las	er Processing Society", Vol. 12, No	o. 1, February	2005						
	Examiner	/Jairus Greene/				Date Cor	nsidered 0	5/18/2	007	

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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
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PTO Form 1449

Attorney Docket No.	Application No.: 10/537,5
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Applicants: Fumitsugu FUKUYO et al.

Filing Date: June 3, 2005 Group Art Unit: Unassigned

## U.S. PATENT DOCUMENTS

*Examiner	Document				Sub	
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		FOREIGN PATEN	T DOCUMENTS				
	Document Number	Date	Country	Class	Sub Class	Trans YES	lation NO
JG	46-24989 (corresponding to U.S. 3,629,545)	July 19, 1971	JP				
	OTHER DOCUM	IENTS (Including Aut	nor, Title, Date, Pertin	ent Pages, Etc.	)		_l_
JG	"New Laser Handboo language translation	k" published by Asaku	sa Shoten, June 15, 19	89, pp. 666-66	69, includin	g English	l
JG	Tooling Machine Seri English language tran	es, "Laser Machining" slation	published by Taiga Sl	huppan Inc., 19	990, pp. 91	-96, inclu	ding
JG	"Stealth Dicing, It's P Semiconductor Wafer including English lang	rinciples and Features: s" published by Takao guage translation	A Technology Most S ka Hidetsugu, Electron	Suitable for Die nic Material No	cing Very 7	Thin pp. 17-21	,
JG	Journal of the Japan S English language tran	ociety of Griding Engi slation	neers, Vol. 47, No. 5,	May (2003), p	р. 229-231	, includin	g
miner	/Jairus Greene		Date Considered	05/18			

Attorney Docket No.: Serial No.: INFORMATION DISCLOSURE CITATION 46884-5388 10/537,509 (Use several sheets if necessary) Applicants: Page 1 of 1 Fumitsugu FUKUYO et al. Filing Date: June 3, 2005 Group Art Unit: 2812 **PTO Form 1449 U.S. PATENT DOCUMENTS** \*Examiner Document Sub Initial Number Date Name Class Filing Date Class May 18, 1993 5,211,805 Srinivasan JG FOREIGN PATENT DOCUMENTS Document Sub Translation Number Date Country Class Class YES NO 10-305420 November 17, 1998 JP Abstract JG 04-111800 April 13, 1992 JP Abstract JG 09-017756 January 17, 1997 JP Abstract JG 07-037840 February 7, 1995 Abstract JP JG 2000-124537 April 28, 2000 JP Abstract JG

/Jairus Greene/ 05/18/2007

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next

Date Considered

communication to applicant.

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#### Serial No.: Attorney Docket No.: INFORMATION DISCLOSURE CITATION 46884-5388 10/537,509 Applicants: Page 1 of 1 (Use several sheets if necessary) Fumitsugu FUKUYO et al. Filing Date: June 3, 2005 Group Art Unit: 2812 **PTO Form 1449** U.S. PATENT DOCUMENTS \*Examiner Document Sub **Initial** Number Date Name Class Class Filing Date August 12, 1997 Mourou et al. 5,656,186 JG Wills et al. 5,543,365 August 6, 1996 JG 2004/0002199 A1 January 1, 2004 Fukuyo et al. JG FOREIGN PATENT DOCUMENTS Document Sub Translation Number Country Class Date Class YES NO EP 1 026 735 A2 August 9, 2000 EP JG WO 02/07927 Al January 31, 2002 PCT JG Examiner Date Considered /Jairus Greene/ 05/18/2007 Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO Form 1449

Attorney Docket No.: 46884-5388

Serial No.: 10/537,509

Applicants:

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Fumitsugu FUKUYO et al.

Filing Date: June 3, 2005

Group Art Unit: 2812

### FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub Class	Translation Yes	No
JG	11-162889	June 18, 1999	Japan			X (abstract)	
JG	61-121453	Sept. 6, 1986	Japan			X (abstract)	
JG	2005-001001	Jan. 6, 2005	Japan			X (abstract)	
JG	2003-334812	Nov. 25, 2003	Japan			X (abstract)	•
JG	2000-042764	Feb. 15, 2000	Japan			X (abstract)	-
JG	05-335726	Dec. 17, 1993	Japan			X (abstract)	
JG	2003-338467	Nov. 28, 2003	Japan		1	X (abstract)	
JG	05-335726	Dec. 17, 1993	Japan			X (abstract)	
JG	2003-338467	Nov. 28, 2003	Japan			X (abstract)	
JG	11-163097	June 18, 1999	Japan			X (abstract)	
JG	06-188310	July 8, 1994	Japan			X (abstract)	
JG	WO 03/076118 A1	Sept. 18, 2003	PCT .			X (abstract)	
JG	2002-192369	Oct. 7, 2002	Japan			X (abstract)	
JG	2005-159378	June 16, 2005	Japan			X (abstract)	
JG	2005-159379	June 16, 2005	Japan		1	X (abstract)	
JG	2002-192371	July 10, 2002	Japan			X (abstract)	
	·						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

**Date Considered** Examiner /Jairus Greene/ 05/18/2007

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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Transport Co	FOREI	GN PATE	NT DO	CUMENT	rs			
	Document Number	Date		Country	Class	Sub Class	Translation Yes	No
JG	JP 2006-135355	May 25, 20	006	Japan .		•	Abstract	
JG	JP 4-188847	Jul. 7, 199	2	Japan			Abstract	
JG .	JP 7-263382	Oct. 13, 19	95	Japan			Abstract	
JG	JP 9-263734	Oct. 7, 199	77	Japan			Abstract	
JG	JP 2006-128723	May 18, 20	006	Japan			Abstract	
JG	JP 2002-192367	Jul. 10, 20	02	Japan			Abstract	
JG	JP 2000-042764	Feb. 15, 20	000	Japan			Abstract	
JG	JP 5-335726	Dec. 17, 19	993	Japan			Abstract	
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PTO Form 1449

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Attorney Docket No.: 46884-5388

Serial No.: 10/537,509

Applicants:

Page 1 of 1

Fumitsugu FUKUYO et al.

Filing Date: June 3, 2005

Group Art Unit: 2812

#### FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub Class	Translation Yes	No
JG	JP 8-264488	Oct. 11, 1996	Japan			Abstract	
JG	JP 9-017831	Jan. 17, 1997	Japan			Abstract	-
JG	JP 11-121517	Apr. 30, 1999	Japan			Abstract	
JG	WO.03/076118	Sep. 18, 2003	Japan			Abstract	
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	OTHER DOCUMENTS	(Including Author,	Title, Date	, Pertine	ent Pages	s, Etc.)	
Examiner	/Jairus G	reene/	Date (	Considere	d	05/18/2007	

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